Small
Business
Innovation
Research

STABLCOR Printed Circuit Boards

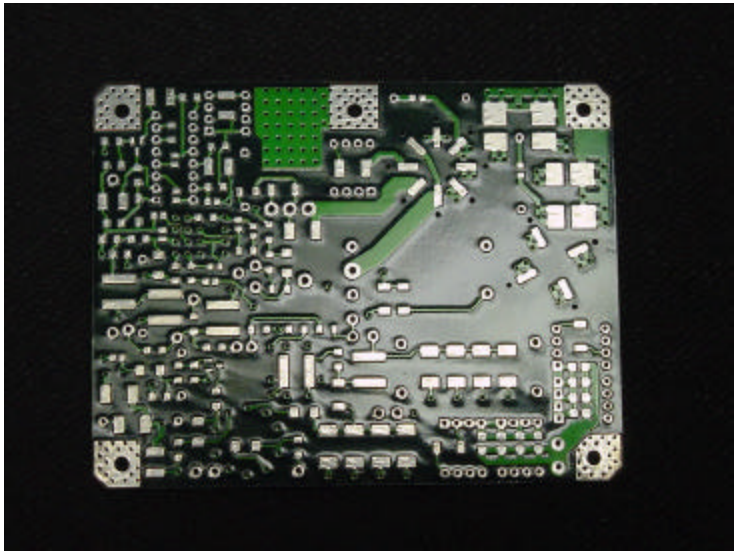
Applied Material Technologies, Inc.
Santa Ana, CA

INNOVATION

Printed circuit board with a high conductivity and low thermal expansion core material

ACCOMPLISHMENTS

- Developed a printed circuit board that improves thermal heat dissipation and reduces thermal expansion mismatch between the board and the integrated circuit components
- Prototype units manufactured and qualification tested by Boeing Commercial Space Systems
- Manufacturing process developed and transitioned to production at a commercial manufacturing facility



Printed Circuit Board with New Core Material

COMMERCIALIZATION

- AMT has sold an exclusive license to SDC Circuits for cash plus revenues related to future sales
- $50K authorized and spent to conduct qualification life tests
- A strategic alliance between AMT, SDC Circuits and Ramtek, Inc. has been formed for servicing the memory and computer markets
- SDC Circuits has spent approximately $1M on manufacturing development of the production process
- Discussions with venture firms indicate a potential for $20M investment
- Primary commercial interest to date is from the high data storage memory markets and from server markets

GOVERNMENT/SCIENCE APPLICATIONS

- Interest from government has been for space and military systems
- This technology is useful for other science applications

Glenn Research Center
Space Power
3-076

1995 Phase II, NAS3-97040, 11/01
NASA Contact – Ken Mellott
Company Contact – William E. Davis